

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|   |                                 |  |
|---|---------------------------------|--|
| <b>Inventor(s):</b> RAYMOND R. RACKLEY et al.   | <b>Examiner:</b> THANH, Loan H. | <b>RECEIVED</b><br><b>CENTRAL FAX CENTER</b> |
| <b>Appln. No.:</b> 10/084,240   | <b>Group Art Unit:</b> 1615     | <b>SEP 01 2004</b>                           |
| <b>Filing Date:</b> February 27, 2002   | <b>Docket No.</b> 54459-237216  |  |
| <b>Title:</b> BULKING AGENT NEEDLE APPARATUS AND METHOD OF USING THE NEEDLE APPARATUS |                                 |  |

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

I CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE  
TRANSMITTED TO THE U.S. PATENT AND TRADEMARK OFFICE (FAX  
NO. (703) 872-9306), ON SEPTEMBER 1, 2004.

*Elaine Raiten*  
Elaine Raiten

**THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

The documents listed on the enclosed Form PTO-1449 are presented pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56.

A copy of U.S. Patent 3,189,029, corresponding to French Patent 1,296,976, is enclosed.

A translation of French Patent 1,501,120 is enclosed.

Descriptions of German Patents 346472, 197 50 090, and 93 18 938 are provided below.

**Patent No. 346472 PATENT CLAIM:**

Needle for injection syringes with a stop mounted on the needle, characterized in that the stop (18) is mounted, fixed so that it can not slide on the needle at a distance between the needle holder (13, 14) and the needle tip (20) such that it achieves the dual purpose of limiting the penetration depth of the needle into the tissue and making possible the removal of the needle tip from the tissue if the needle breaks off at the clamped end.

**DE 197 50 090 A1**

57 The cannula is provided for a Luer or Luer-lock connection and has a cannula tube and a cannula holder that are connected to each other so that they are tightly fixed. The cannula tube is held within the cannula holder. It is designed as an essentially tube-shaped element with an inner wall that runs conically toward the cannula tube. The cannula tube also

09/03/2004 BABRAHA1 00000055 10084240

01 FC:1806

180.00 OP

**BEST AVAILABLE CC**

AN 10/084,240  
Page 2

extends into the space of the cannula holder surrounded by the conical inner wall and thus seals the ring space that would otherwise remain in the cannula holder.

DE 93 18 938 U1 Disposable Dental Instrument

The present invention relates to a disposable dental instrument according to the preamble of Claim 1.

In order to apply a medication to teeth, dentists can fasten a small piece of absorbent cotton on a manual excavator and then dip the absorbent cotton into the medication in order to absorb the medication to be applied to the teeth. This method is not hygienic since it can cause contamination. Fig. 7 shows a dental syringe that is designed for the same purpose. The design is such that the syringe is disposable and thus no contamination problems are created. However, this dental syringe is expensive to manufacture. In addition, the straight tip of the dental syringe makes it difficult for the dentist to apply a medication to the teeth at various angles.

The object of the invention consists of producing a disposable dental instrument that prevents the disadvantages named above.

According to the preferred embodiment of the present invention, the disposable dental instrument has a tube with a bulb or bellows at one end and two inner ring-shaped grooves at a distance from each other at the opposite end and a disposable nozzle tip with a split head and a ring-shaped outer flange on one end that is fitted into the tube and is in engagement with the inner ring-shaped grooves. The bulb or bellows of the tube can be pressed together and then released in order to draw a liquid to be applied to the teeth into the tube. After use, the nozzle tip is disposed of while the tube is kept for repeated use. This saves a large amount of material costs without any contamination problems occurring. The nozzle tip can have a curved or angled shape so that the dental instrument can be used to apply a medication to the teeth at different angles.

The invention will be explained in the following using advantageous embodiments with reference to the attached drawings.


AN 10/084,240  
Page 3

Applicants have included the fee of \$180 under 37 CFR 1.97(c) and 1.17(p). In the event that the amount submitted herewith is insufficient in any respect, the Commissioner is hereby authorized to charge the balance needed to our Deposit Account No. 06-0029 and notify us of the same.

Respectfully Submitted,

RAYMOND R. RACKLEY et al.

By:

  
John L. Crimmins, #51,589  
FAEGRE & BENSON LLP  
2200 Wells Fargo Center  
90 South Seventh Street  
Minneapolis, MN 55402-3901  
612/766-7749

Dated: September 1, 2004  
M2:20631564.01

Page 1 of 1

**THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

February 27, 2002

[illegible]

| FOREIGN PATENT DOCUMENTS |                 |            |         |       |          |                    |  |
|--------------------------|-----------------|------------|---------|-------|----------|--------------------|--|
| Name                     | Document Number | Date       | Country | Class | Subclass | Translation Yes/No |  |
|                          | 1 501 120       | 10.11.1967 | France  |       |          | Yes                |  |
|                          | 1 296 976       | 22.06.1962 | France  |       |          | Yes                |  |
|                          | 93 18 938       | 10.02.1994 | Germany |       |          | Yes                |  |
|                          | 197 50 090      | 10.05.1999 | Germany |       |          | Yes                |  |
|                          | 346 472         | 26.03.1919 | Germany |       |          | Yes                |  |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Date Considered

M2:20651564.01

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**